Introduction to Op-Amps

Basic Op-Amp Applications and Introduction to Analog/Digital (A/D) and Digital/Analog (D/A) Conversion

Week 3 Assessment

On 10th June 2019, the assessment has been released.

The assessment is due on 21st July 2019.

Components:

1. A 1-stage Op-Amp (Fig. 1) has a total frequency of 1.3 MHz. Design the correct combination of resistor and capacitance to realize the desired bandwidth.

2. A 2-stage Op-Amp chain with a gain of 60 has a total frequency of 1.3 MHz. Design the correct combination of resistor and capacitance to realize the desired bandwidth.

3. Why is the output of an Op-Amp not an exact replica of the input in practical circumstances?

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5. What are the limitations of Op-Amps in practical applications?

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7. Why is the output of an Op-Amp not an exact replica of the input in practical circumstances?

8. What is the purpose of an Op-Amp in a practical circuit?

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